Data Analysis with Python

Cheat Sheet: Model Development

| Process | Description | Code Example |
|--|--|--|
| Linear Regression | Create a Linear Regression model object | from Albaro, linear_model import LinearRegression r = LinearRegression() |
| Train Linear Regression model | Train the Linear Regression model on decided data, separating Input and Output attributes. When there is single attribute in input, then it is simple linear regression. When there are multiple attributes, it is multiple linear regression. | X = df[['attribute_2', 'attribute_2',]] y = df ['aspt_attribute_1'] 1.fu((x)^7) |
| Generate output predictions | Predict the output for a set of Input attribute values. | v_het = lr.predict(t) |
| Identify the coefficient and intercept | Identify the slope coefficient and intercept values of the linear regression model defined by $\hat{y} = mx + c$ Where m is the slope coefficient and c is the intercept. | coeff = lr.coef intercept = lr.intercept_ |
| Residual Plot | This function will regress y on x (possibly as a robust or polynomial regression) and then draw a scatterplot of the residuals. | <pre>import makers as are import important as are important import</pre> |
| Distribution Plot | This function can be used to plot the distribution of data w.r.t. a given attribute. | import nature as ans an anti-contract and an anti-c |
| Polymonial Regression | Available under the munpy package, for single variable feature creasion and model fitting. | f = spondayfit(x, y, s) The state of the st |
| Multi-variate Polynomial Regression | Generate a new feature matrix consisting of all polynomial combinations of the features with the degree less than or equal to the specified degree. | For a State-proposation is great Polynomial Features ; 2 - df (services) - (at the polynomial Features ; p-olynomial Feature (depress) 2 - (prod.) (prod. |
| Fipeline | Data Pipelines simplify the steps of processing the data. We create the pipeline by creating a list of tuples including the name of the model or estimator and its corresponding constructor. | from withers.pipeline import Pipeline from withers.pipeline import Standardscalar from withers.pipeline import Standardscalar from withers.pipeline import Standardscalar from withers.pipeline from the standardscalar from the standardscalar from withers.pipeline fr |
| R°2 value | R*2, also known as the coefficient of determination, is a measure to indicate how close the data is to the fined regression line. The value of the R-equited is the percentage of variations of the response variable (y) that is explained by a linear model. **Example of the response of the response variable (y) that is explained by a linear model. **Example of the response of the response variable (y) that is explained by a linear model. **Example of the response of the response variable (y) that is explained by a linear model. **Example of the response of the response variable (y) that is explained by a linear model. **Example of the response of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of the response variable (y) that is explained by a linear model. **Example of th | L. x = df[['stribles_1', 'stribles_2',]] |
| MSE value | The Mean Squared Error measures the average of the squares of errors, that is, the difference between actual value and the estimated value. | from sklare.matrics import mean squared_error see near_quared_error(t, "that) |



